

SECRET

2 October 1963

MEMORANDUM FOR: Chairman, Technical Development Committee

THROUGH : Executive Secretary, TDC

SUBJECT : Staff Study - Modification of Four Telecordex Units Now in Operation and Procurement of a Solid State Telecordex

1. PROBLEM:

a. A more accurate and faster readout capability is required for the Model 8-D Telecordex units now in operation. The present Flexowriter-punch tape method of output is not satisfactory due to numerous maintenance problems and relative inaccuracy.

b. A readout capability for the new Model 880 Comparator, which will provide the accuracy and speed necessary, is not available. The Telecordex Model 8-D units that the Army now has would have to be modified and reconditioned for use. They would require more work than is now contemplated for the four Model 8-D Telecordex units in TAB.

2. DISCUSSION:

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In a meeting with [REDACTED] of TID it was established that a more reliable method of coordinate readout was necessary. The present Flexowriter-tape punch method was not accurate, posed maintenance problems and correction of errors was extremely difficult. A decision was reached to convert the readout to an IBM Model 26 Printing Card Punch. Advantages of this method are an increase in accuracy, increase in speed and an easier procedure for error correction. In addition, the conversion from the tube-type Model 8-D Telecordex to the Model 282-E Telecordex was discussed. Since new tubes had been ordered for the Model 8-D's, it was decided to retain these instruments. It is expected that they will be eventually replaced with the new, solid state Telecordex Model 282-E. This however, will not be undertaken until the repair requirements for the Model 8-D justify replacement. Presently the 8-D's are used with a Flexowriter-tape punch output. The Flexowriter-tape punch method has not produced the accuracy required and has a relatively slow output of approximately 8 characters per second. The proposed IBM Model 26 Printing Card Punch was selected by those concerned for its greater accuracy, higher character output rate (18 characters per second) and a much more convenient method of error correction. No "hard copy", per se, will be produced by the Model 26; however, there will be an alphabetic-numeric printing along the upper margin of each card to allow checking card data when necessary.

Declass Review by NIMA / DoD

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3. CONCLUSIONS:

Accuracy, maintenance and heat problems would be reduced if a solid state Telecordex unit were purchased for use with the new [REDACTED] Comparator. 25X1A  
The conversion of the four existing tube-type Model 8-D Telecordex units to an output compatible with the IBM Model 26 Printing Card Punches will increase accuracy and speed of readout.

4. RECOMMENDATIONS:

a. That purchase of a solid state Model 282-E Telecordex with 113A Remote Constant Switches and circuitry compatible with the IBM Model 26 Printing Card Punch be approved. Cost of this unit is [REDACTED] for the Telecordex and [REDACTED] for remote switches). 25X1A

b. That modifications of the four existing tube-type Model 8-D Telecordex units be approved to allow use of the IBM Model 26 Printing Card Punch. Cost of modification to each key-punch is [REDACTED] plus labor and for each Model 8-D Telecordex unit [REDACTED] plus labor. The total cost of modifications is [REDACTED] for all of the units concerned. 25X1A

c. Contract should be [REDACTED] Modifications to the Model 8-D Telecordex units can be made inhouse. The Model 282-E Telecordex is a shelf item. Total cost of contract will be about [REDACTED]

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[REDACTED]  
Development Branch, P&DS

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Approved

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QUOTATION

No. **DI 21202-A**

Date **10-1-63**

TO

**Air Force Headquarters  
Washington, D.C.**

Customer  
Reference

ATTENTION:

Delivery: **90 Days After Receipt of Order**

We are pleased to submit our quotation for the items listed below.

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Item	Quantity	TYPE NUMBER AND DESCRIPTION	UNIT PRICE	TOTAL PRICE
1	1 ea	Telecordex Type 282E, which includes 1 ea. Cabinet 2 ea. Type 193E Telepaks 1 ea. Type 195C Program Unit 1 ea. Type 160A Event Counter		25X1A
2	4 ea	Modification Kits for Type 8D Telecordex for compatability with an 0/26 Keypunch		
3	5 ea	Modification Kits for 0/26 Keypunch		
4		Labor for Modification to 4 ea. Type 8D Telecordex - 128 hrs. at		
5		Installation of 5 ea. Modification Kits to 0/26 Keypunch - 40 hrs. at		
6		Type 113A Remote Constant Switches - 6 Digits (To be used with Item 1)		
TOTAL				25X1A

Prices quoted are F.O.B. ☐ Destination

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~~XXXXXX~~ ☒ California

Terms: Net 30 days

By

Delivery estimates represent our best judgment under present conditions  
but cannot be guaranteed for release 200201032: CIA-RDP78B04747A000900040012-6  
30 days—and is subject to the terms printed on the reverse side.

Title **Sales Manager**

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## **STANDARD CONDITIONS OF SALE**

### **DELIVERY:**

Unless otherwise specifically provided, delivery of products shall be made f.o.b. Seller's plant, and title shall pass at that time. Shipping dates are approximate and are based upon prompt receipt of all necessary information.

Seller will use its best efforts to deliver as specified herein but shall not be liable for delays in delivery occasioned by forces majeure or any cause beyond its control.

Shipments made f.o.b. Seller's plant shall be at the risk of the Buyer, who shall make all claims to the carrier in the event of damage to shipped material or losses in transit. Buyer shall notify Seller in writing relative to any shortages, within 10 days from receipt of shipment.

### **TAXES:**

The Seller's prices do not include sales, use, excise, or similar taxes. Consequently, in addition to the price specified, the amount of any present or future sales, use, excise or similar tax applied directly to the sale hereunder shall be paid by the Buyer, or in lieu thereof the Buyer shall provide a tax-exemption certificate acceptable to the taxing authorities.

### **CANCELLATION:**

The Buyer may cancel his order only upon payment of reasonable cancellation charges which shall take into account expenses already incurred and commitments made by the Seller.

### **WARRANTY AGREEMENT:**

The Seller warrants that products to be delivered pursuant to this quotation will conform to specification, if any, accompanying this quotation; that best commercial practices will be followed in the manufacture; that the equipment will be free of any defective workmanship and/or defective components, except gas-filled or vacuum tubes, batteries, fuses, or lamps; that no statute, regulation, or ordinance of the United States or the State of California has been violated in the manufacture or sale of such products; and that the Seller has title thereto and the right to sell the same. This warranty does not include any obligation on the part of the Seller to perform routine maintenance or adjustments on the equipment arising from normal use and wear. Liability of the Seller, whether based on this warranty or otherwise, shall in no case exceed the cost of the parts or products, and all such liability shall terminate within four months after shipment from the Seller's plant.

If this quote is being made to a Government Agency, any conditions appearing on the face or reverse of this form or on other papers forming a part of this quotation which may conflict with Armed Services Procurement regulations may be deleted.